



# BADGER STATE *Smoke Signals*



*Serving Amateur Radio In Wisconsin*

***Published Monthly Since 1969***

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Somewhere around the time you receive this issue, this man will be making or will have made Amateur Radio history! Here, Astronaut Owen K. Garriott, W5LFL, demonstrates his hand-held Amateur Radio transceiver, for his flight on STS-9/Spacelab - Columbia, set for launch October 28. Owen has been a Ham since he was a teenager, and this is the first operation of Amateur Radio from a manned orbiting spacecraft. The W5LFL/space-mobile antenna is mounted in one of the orbiter's aft-flight deck windows..how else would a Ham do it? The radio produces 5 watts output to the split-ring antenna. This photograph was taken in the Shuttle orbiter one-G trainer at NASA's Johnson Space Center. We thank NASA for the photo, who took the picture. Godspeed, Owen..and Thanx! k9zz



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 Jim Romelfanger, K9ZZ, Editor  
 Jim Decker, WB9UQT, Treasurer

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**SWAPFEST CORNER:**

The 12th Annual Midwinter Swapfest (the Original Waukesha Swapfest) sponsored by the West Allis Radio Amateur Club will be held on Saturday, January 7, 1984 at the Waukesha County Expo Center Forum. Starting time is 8:00 AM and admission is \$2.00 in advance or \$3.00 at the door. Tables are \$3.00 reserved until 11:00 AM or \$4.00 at the door (first come first served). Also featured is our delicious food. Directions: I-94 to Co. F, south to FT, west to Expo. For tickets or info write with S.A.S.E. to: WARAC, P.O. Box 1072, Milwaukee, WI 53201.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to K9EN. In addition, space is available at attractive rates on our advertising pages and/or we can include your flyers. For information on rates and requirements please contact K9ZZ or K9EN.

**ON THE EVENING OF FRIDAY, November 4th, Starting at 7:00 P.M.,** the Milwaukee Astronomical Society will be holding a special edition of their public open house series, with the Assistance of the W/K Amateur Radio Club. The Society will be presenting lectures on and demonstrations on Amateur Space Communications.

Demonstrations on Amateur Satellite communications will be given utilizing OSCAR (Orbiting Satellite Carrying Amateur Radio) and the RS Russian communication satellites. Also during the course of the evening attempts will be made to establish contact with Owen Garriott,

WSLFL, an Amateur Radio Operator who will be aboard the space shuttle Columbia, which will be orbiting the earth on that evening. (ed note: The WSLFL flight has been delayed)

Weather permitting, the telescopes of the Observatory will be open for observing.

The observatory is located at 18850 W. Observatory Road, New Berlin. Take hi-way 15 to the Moorland Rd. exit, go North on Moorland to ES (National Ave.), go West on National to Observatory Rd., go North on Observatory Rd. until you get to the observatory.

A donation of \$1.00 for parking would be greatly appreciated.

**WISCONSIN BCWA ELECTIONS**

The election of directors for the Wisconsin Chapter 55 BCWA group was held on Saturday, October 1, 1983 at the gathering of members in Stevens Point, Wisconsin.

Results of the election are as follows:

Chairman	Herbert P. Gerend	W9OUT
Vice-Chairman	Frank L. Guth	W9BCC
Secretary	Lester A. Peterson	W9YCV
Treasurer	Richard R. Regent	K9GDF
Director	William P. Gainer	W9SO
Director	Victor O. Tresidder	W9TQ
Director	Quintin N. Peters	W9FAD

**from WESTLINK REPORT**

WSLFL'S "HAM IN SPACE" MISSION has been delayed until at least the 26th of November. NASA made the decision to bypass the October 28th launch date after engineers discovered problems with the carbon insulation linings of the exhaust nozzles on the external solid rocket booster engines. The linings are designed to protect the outer skin of the booster nozzle from burning away under the intense heat generated by the engine's exhaust. At the end of a shuttle flight, at least 1 1/2 inches of lining should remain, but inspection of the rocket boosters used in the August 30th launch of the STS-8 revealed less than .2 inch of lining left. According to NASA, had the engines continued to burn for another 18 seconds, a burn through might have occurred. According to Lt. General James Abramson, NASA's Associate Administrator, one of the nozzles on the Columbia (to be used on the STS-9) is from the same batch as those on the Challenger (which flew STS-8). Rather than chance a burn-through, NASA will hold the STS-9 launch in an effort to find out if any problem still exists. A more ominous note was sounded by NASA Administrator James Beggs in Los Angeles on October 14th. He told the press that "...no shuttle will fly until NASA scientists find out what's wrong with the nozzles and fix them." It is doubtful that the delay will have any effect on Dr. Garriott's Ham radio plans, once the Spacelab is in orbit.

**THE TEN YEAR AMATEUR LICENSE** is now a reality, but you must renew your current ticket in order to get one. The Commission acted on October 6th to affirm PR Docket 83-337 and has extended the operator and station licenses in the Amateur Service to 10 years, while, at

the same time, changing the grace period for renewing an expired license from the current 12 months to 24. The Commission said that it would not issue a blanket order extending existing licenses because it felt that this would be confusing to both U.S. Amateurs and foreign licensing authorities who have reciprocal agreements with the United States. Instead, the 10 year license will be phased in as current licensees apply for renewal. (FCC Order 83-454-5, October 6, 1983)

THE VOLUNTEER EXAMINATION PROGRAM for Amateur licenses was officially approved September 22nd when the FCC acted on Personal Radio Docket 83-27. The biggest surprise was the Commission's decision to establish 13 regional Volunteer Examination Coordinators, rather than selecting a single national V.E.C. The plan calls for designating a V.E.C. in each US call district in addition to 1 each in Alaska, the Pacific islands and the Caribbean. The decision to go with regional V.E.C.'s is widely interpreted as a "wrist slapping" of the ARRL. The League made an ultimatum, late in the consideration of Docket 83-27, to have V.E.C.'s compensated for their efforts or to forego help from Newington; members of the Commission had felt they had been assured the League would handle the program gratis. Exam administration fees are specifically prohibited by the Report and Order in a section reportedly written by the FCC's legal staff and is based upon the enabling legislation. The ARRL has been lobbying on Capitol Hill for a bill that would legalize the collection of fees. It was assumed that such a bill had no chance for passage due to Senator Goldwater's opposition to it. However, the Senator seems to have changed his mind.

THREE-PERSON VOLUNTEER EXAMINING TEAMS are still required for the administration of the tests, and all but those for the Technician Class will require that all 3 team members be Extra Class licensees. Specifically, 13 as well as 20 wpm code tests, as well as Elements 4A (Advanced and Extra) and 4B (Extra) must be administered by a team consisting of 3 Extra Class licensees. Negotiations with groups wishing to become regional V.E.C.'s will be opened by the FCC on December 1st. Since some geographic regions are expected to respond more quickly than others (and thus have an acceptable volunteer examination organization in place more rapidly than others), so it appears almost certain that the program will be up and running in some parts of the country long before it will be in others. The FCC has indicated that it will continue administering Amateur examinations at its own Regional Field Bureaus, but on a far more reduced scale than is currently in operation.

The Commission has also let it be known that it requires more pool questions for Elements 4, 4A and 4B and are requesting that Amateurs begin submitting such material at this time. The initial question pool for Element 3 is filled to the level that no more input for this element is needed at this time. Pool questions for exam use and applications to become a regional V.E.C. should be sent to: Secretary, FCC, 1919 M. Street N.W., Washington, DC 20554 (Story by Joe Schroeder, W9JUV, and Bill Pasternak, WA6ITF, with thanks to John Johnston, W3BE of the FCC)

THE 2300 MHZ BAND MAY BE IN DANGER  
Multi-point Distribution companies may go after the Amateur 2.3 GHz allocations as a was of curbing "pay-TV piracy."

Although denied by companies in the business, rumors persist that a national MDS industry association will shortly file a request for rulemaking aimed at terminating all Ham radio utilization of frequencies near MDS allocations.

The industry blames Amateur radio as being the cause of wide spread pay TV theft, and appears to have decided that removing Hams from any spectrum near pay-TV will solve the problem.

They are also angered by Amateurs who are willing to take legal action against MDS operators who demand an Amateur "prove his license" to them in return for assurances that the television carrier won't haul them into court on pay-TV piracy charges. Most Amateurs are aware that such a demand is illegal and are refusing to capitulate to the whims of the business interests.

A figurative state of war exists nationwide between the Amateur Radio Service and MDS pay-view telecasting.

NO CODE UPDATE  
by Joe Schroeder, W9JUV

Action on the No Code license is not expected until late this year or early 1984, according to Washington sources. There is also substantial speculation that the rebuff the ARRL took on the All Volunteer Amateur licensing program is a harbinger of a pro-No Code decision when the Commissioners finally consider the issue.

The widely heralded Air Force letter opposing No Code was apparently only a statement by some Air Force MARS people that their MARS appointments that include HF band operations would still require CW ability; the letter was not a statement of Air Force policy.

CAN THE "NO CODE LOBBY" KILL THE PROPOSAL?

Whether or not the lobbying by Amateur radio operators of elected representatives will have any effect on killing No Code depends on whom you speak with at the FCC.

At the staff level they confirm that they have received comments from various legislators in opposition to the license class, but at the higher "Commission" level, the feeling is that the Commissioners, themselves, are aware that much of it is generated by emotional reaction within the Amateur community.

At the outset, the FCC admitted that they were aware that No Code was an emotional issue, with the distinct "hint" that emotionally generated responses from any source would be largely ignored.

-----  
There is a new kind of wine called Post Office red. You mail five pounds of grapes in a container and mark it "Fragile."

-----  
If you want to realize your own importance, put your finger into a bowl of water, take it out, and look at the hole.

-- Doris Bauman, Kiel Tri-County Record

## WISCONSIN NETS ASSOCIATION, INC.

## WISCONSIN NETS

NET	WNA	FREQ	UTC	LOCAL CST	MANAGER
BWN	YES	3984	1200Z	0600	WD9IID
BEN	YES	3985	1800Z	1200	WB9ESH
WSRN	YES	3985	2330Z	1730	K9ANV
WNN	YES	3723	0000Z	1800	KA9HPQ
WSSN	YES	3645	0030Z	1830	KC9CJ
WIN-E	YES	3662	0100Z	1900	W9YCV
WIN-L	YES	3662	0400Z	2200	K9LBU
XPO	NO	3925	1831Z	1231	WA9YVC
NWITN	YES	.34/.94	0030Z	1830	N9BDL
WCWTN	YES	.31/.91	0030Z	1830	N9AUG
GR.BAY	NO	.72/.12	THU 0245Z	2045 WED	WB9NRK

from the OO/RFI COORDINATOR

Art Dunham, KA9IKR

656 7th Ave. S.

Park Falls, WI 54552

Many readers may wonder what the duties of the OO/RFI Coordinator entail. He is an ARRL section level leadership official, appointed by the Section Manager, for a twofold purpose: To supervise the Official Observer program in the section and to provide assistance to Amateurs within the section in RFI problem solving. I hope that I can do a good job and fulfill the trust placed in me by Roy.

As part of the supervision of the OO's, I will be involved with one of the new frontiers of Amateur Radio. The passage of the Goldwater-Wirth Amateur Radio legislation, which is now known as Public Law 97-259, has added a new facet to the Official Observer program. One of the provisions of the bill is the authority of the FCC to enlist the aid of volunteers in monitoring the Amateur airwaves for violations of rules. The ARRL was expected to consider approval of the formal agreement between itself and the FCC Field Operations Bureau at their October Board meeting. This would be the initial step toward implementation of the Official Observer/Amateur Auxiliary program. I recently received a draft copy of the training guide to the Amateur Auxiliary to the FCC's Field Operations Bureau. Several interesting aspects of the program were found. Watch for an article in December QST detailing the Amateur Auxiliary.

Meanwhile, if anyone has any questions about the Official Observer program or has a problem with RFI, I can usually be found on the Wisconsin nets, especially the phone nets.

73, Art

WIN-E - NM, Les Peterson, W9YCV

9741 W. Howard Ave.

Greenfield, WI 53228

KA9OBP, Paul, is the youngest member of the net. He is the NCS Saturday evenings and frequently subs for others in their absence. Paul also is the 9RN-E rep on Mondays. He recently received his QRS certificate. Welcome aboard and thanks for your excellent participation nightly.

It is great to have W9KU, Warren, back in his regular Thursday night NCS slot.

So all net members know what is going on, here is a little explanation of the use of QTB LTR. This combination means "I do not agree with your group count -- I will send the first letter of each word in the text to find the discrepancy."

I would like to suggest the following to the net members.

1. When you are NCS, do not use too tight filters, if possible, so you do hear stations slightly off frequency when they try to QNI. I hear some make several attempts without being heard.

2. After a couple of attempts to QNI without being heard, that station should make another effort to bring his frequency closer to the NCS.

3. Run a test with another net member to determine what your receiving readout should be for the transmitter section to be on 3662 KHz at zero beat. There are some differences in transceivers. For example when I had the Swan Astro 150, my readout was 3661.2 and my transmitted signal was a zero beat on 3662. With my present IC-740, when my readout is 3662, the transmitted signal is also on 3662. My readout in either case would not change to the transmitted frequency. With the Astro 150, I had no problem receiving stations whose zero beat signal was on 3662 due to the 800 Hz shift incorporated in the 150. With the IC-740, I have to move the receive RIT off from its centered position to receive such signals. Fortunately the RIT on the 740 shifts the frequency 1.5 KHz + or - so I can tune in stations somewhat off frequency without changing my transmitted signal. In the old days, we did not have this problem as we used separates so the transmitter was zeroed on 3662 and the receiver could be tuned to the off frequency station or to the most pleasing note. (for whatever the net frequency happened to be.)

Any one out there interested in taking over the Net Manager job?

73, Les

We regret to announce a Silent Key: Pat Caldwell, WA9YPZ and express our sympathies to Jim and the family.

MISCELLANEOUS MISCELLANEOUS MISCELLANEOUS MISCELLANEOUS

Oh what the heck -- a couple of extra items

Clyde, W9HSY, recently had a flood from a plugged sewer create a minor flood in his basement apartment. Clyde sez it was mostly plain water. But...if it had been worse, he might have been in trouble. I dunno if he can swim, but, if not, he can go through the movements.

What are you or your club doing? Tell us about it...we'll be happy to run you newsworthy items! Want ads? Just 50 cents a line! We want to serve you as best we can. But to do that, we do need your input! Send editorial material to Jim Rowelfanger, K9ZZ, Rte. 1, Box 770, North Freedom, Wis. 53951. Ads also to K9ZZ. Subscriptions go to WB9UQT, address on page 2. Address changes to K9EN, also on page 2.

# YELLOW THUNDER AMATEUR RADIO CLUB

The October 1983 gathering was held 11 October in room 34 of the Baraboo Civic Center. In personal attendance were:

Ken Ebnetter, K9EN, Portage  
Harry Mayland, K9FFT, Baraboo  
Art Escher, WA9WUS, Lodi  
Rob Warner, WB9UQD, Lodi  
Bob King, KA9GNY, Baraboo  
Ken Johnson, K9DZG, Mazomanie  
Elwyn Harris, W9YPP, Prairie Du Sac  
Paul Amend, KA9QBP, Portage  
Jim Decker, WB9UQT, Baraboo

Also present by written proxy vote to vote on the proposed quorum reduction were:

Jim Rowelfanger, K9ZZ, Baraboo  
Jeremy Wight, WB9NVI, Seattle, Washington

The gathering was gavelled to order by President Bob King, KA9GNY. Minutes of the last meeting were approved as they appeared in BSSS. News from Westlink Report was read and Jim Decker, WB9UQT, Treasurer, reported a balance at meeting time of \$450.43, with raffle proceeds of \$377.42.

New members Bill Hommell III, KA9DFJ, and Kevin Boyd, KA9GGL, were unanimously voted to membership. Welcomen!

The proposed amendment to reduce the quorum from 10 to 5 required to do business at meetings was passed by a vote of 10 to 0.

A Thank-you was read for our help with an American Foreign Student Walk.

A resolution of thanks was passed, expressing our gratitude to Roy Neal, K6DUE, for his hundreds of hours of time in promoting Amateur Radio. Roy was also made an Honorary Member of YTARC. We thank you, Roy! You have helped bring new respect and honor to Amateur Radio.

Buck Night winner was Jeremy Wight. He was here in letter form only...no body. I'm not sure just what this brings the total to. Meeting adjourned.

The program was our annual junquefest and auction. K9EN did the auctioneer chores, and the shindig brought in a few dollars for the treasury. We thank those who attended - you helped it be a success" (Did any of you who brought goodies have fun explaining what is is to the YF?)

My address has changed...I'm now a rural dweller. My new QTH is Rte. 1, Box 770, North Freedom, Wisconsin 53951. No telephone yet. It does say "Rte. 1," but it's actually in Bluffview Acres, just across Highway 12 from Badger Army Ammunition Plant, about 7 miles south of Baraboo. If you want to stop by and say "howdy," I'm in apartment B-10, on the North end of the apartment buildings. Be glad to see ya! Jim Rowelfanger, K9ZZ...

**Sentence Sargon:** On a bus a man gave a lady his seat. She fainted. When she recovered, she thanked the man. Then he fainted.

No birthday listings for November, since in my change of QTH, I have yet to find the forms! I do remember two, and at the risk of missing others, they are:

Nov. 1 - Steve Polishinski, WB9YSD, Oshkosh/Madison  
Nov. 17 - Gary Pratt, WB9ECO, San Francisco.

November meeting will be Wednesday, November 16, at 7:30 p.m. in room 34 of the Baraboo Civic Center. A resistor is a resistor? Nah! Carbon, film, wirewound, and many more! What's used where...and why? What happens if you stick a wirewound in an audio circuit? How about an rf circuit? BIG difference...and we've some spectacular results! Ken Ebnetter, K9EN, our resident Chief Engineer and permanent applicant for GEARVAKf membership, will cover this topic at our November meeting. We haven't had a good technical program for some time. Come and expand your knowledge by learning from someone who is most wise. k9zz

Our December meeting will be held on Thursday, December 15. It features our annual election of officers to serve in 1984. It'll also be Holiday Party time, too, with good cake, milk, ice cream plus other goodies. Serving as an officer is not much work. Please consider accepting an office. The club needs people in those offices. You might not think you are "officer material"...not so! As I said, it doesn't take a lot of time...and you are indeed needed. The four who are nominated and elected will guide the club for 1984. Please give it some thought...the club needs you...in fact you ARE the club! k9zz

We get letters: Glad to receive the following from Jeremy Wight, WB9NVI:

"Dear Jim and all, I vote to lower the quorum from 10 to 5. Wish I could vote in person - sure miss all of you."

"Grad school is going OK though I'm pretty busy, of course. I'm taking 3 courses (Electrodynamics, Quantum Mechanics, and Math Methods) and teaching 2 others. Many years 'twil be B4 I get my degree!"

"Good luck to all of you."

Nice to hear from you, Jeremy, and our best wishes right back to you, too!

Not so good news from the La Crosse area. We hear via the 2-meter grapevine that Charter Member Gerry von Klein, WA9GYF is having an uphill battle with his health. We are praying for you, Gerry. If you would care to drop Gerry a line, I know he'd be happy. His address: 1326 Winnebago, La Crosse, Wis. 54601

Of Interest... the Madison Area Repeater Association will have its Holiday Party and get-together on Monday, December 5, at the Hilltop Inn, south of Cross Plains. It will get underway around 6 p.m., with a super din-din a little later. Any one is welcome. It's 7.50 per plate. Please reserve in advance. Send you money to: MARA, P.O. Box 3403, Madison, Wis. 53704. Clyde tells me that he may even do his hilarious "It's in the book" routine...and if he does, that alone is worth the dinner price!

It keeps looking better for a big Circus Parade in Baraboo in 1984! We hope to be asked to help and have offered our services. Assuming we do help provide communications, we'll be needing volunteers! It will be a good-sized operation and we'll need lots of help. If you will want info or to volunteer for a specific post, drop a card to Jim Decker, WB9UQT, P.O. Box 337, Baraboo, Wis. 53913-0337, or to K9ZZ.

#### COMPUTER REPORT from ARNS Bulletin.

There is a very excellent report on computers in Consumer Reports. The second part appears in the current issue.

From this editor's (K9NL) viewpoint these are the most complete articles ever seen on computers. The second part concerns peripherals, particularly printers. If you are at all interested in purchasing a computer, you should read these articles before you plunk down any money.

#### NEW DATA ON THE HARNISHE-LISHNUS EFFECT from GEARVAKf

Several years ago we revealed in the GEARVAKf Bulletin the discovery that radio waves were gradually slowing down. Found during experiments conducted by our own Dr. Elwood P. Lishnus and Dr. Avruell U. Harnishe of the GEARVAKf Scientific Studies Committee, the Harnishe-Lishnus Effect has had a profound influence upon the manufacture and design of Amateur radio equipment and other devices that make use of the radio spectrum.

Originally, radio frequency drifting was thought to be a minor problem within receivers and transmitters brought on by unstable heating and cooling of frequency-determining circuits.

That theory was abandoned, however, when the slowing of the radio waves forced the electronics industry to change its frequency measurement system from the cycles-per-second to the Hertz standard. New equipment manufactured under the Hertz standard did not drift, whereas old gear made under the cycles-per-second standard continued to drift from set frequencies.

Observation of the phenomenon led to the discovery of the Harnishe-Lishnus Effect in 1966. The early experiments, however, dealt only with frequencies below 10 MHz. Last year, Drs. Harnishe and Lishnus made a series of observations of the slowing of radio waves above 10 MHz and found that they vary at a much different rate than those below 10 MHz.

Surprisingly, they found that the lower frequencies are actually pulling away from the higher frequencies, leaving a gap in the middle. That gap just happens to fall right in the new 30 meter Amateur band between 10.109 MHz and 10.115 MHz.

The FCC won't let us operate there because there are no frequencies to operate on! Any rig loaded up in the gap would see an infinite SWR and instant destruction. The Harnishe-Lishnus Effect provided early warning and probably saved thousands of dollars in equipment from ruin.

**SCOTLEGGERS ON 2** Clarence, W4TVC says that he and others have heard signals using other than Amateur identification on 146.52. They apparently are originating from non-Amateur Radio bow-hunters in the area using Amateur Radio equipment and frequencies for communications in the woods. Clarence says they are attempting to identify who the people are so that it can be reported to the proper authorities. It is believed that they have been using the Amateur bands for the past couple of years.

#### COURT RULING MANDATES ROYALTY PAYMENTS from GEARVAKf BULLETIN

In a surprise decision late last month, Federal District Judge Mickey Harlan Mouse ruled that users of special theories and formulae must pay royalties to their originators or to the estates thereof. The ruling applies, but was not limited to, Ohm's Opinion, Pascal's Law, Bernulli's Principle, The Marconi Effect and Einstein's Theory of Relativity. This decision comes on the heels of a recent California Court ruling making it illegal for owners of home videotape machines to use them for making home videotape recordings. A new lawsuit along similar lines has been filed in Judge Mouse's court asking that owners of radio and television receivers be prevented from using them to receive radio and television broadcasts without the payment of a royalty to the originator of each broadcast received. Judge Mouse refused to talk to TV reporters about the matter unless he was paid a large royalty. Readers of the GEARVAKf Bulletin will remember a similar court ruling several years ago which outlawed the Ohm's law and substituted Ohm's Opinion for use in computing current, voltage and resistance.

#### SOME DX NOTES: (from WESTLINK REPORT)

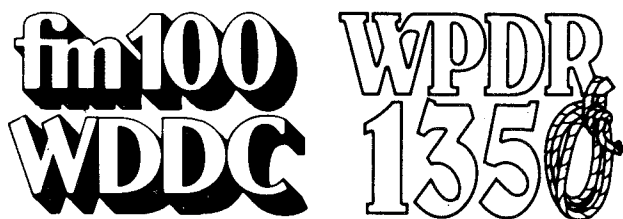
**ADIS AND HIS CREW** should be operating from Jarvis Island on November 5th. Jarvis is about 500 miles south of Palmyra and this operation raises the question of possible country status for Jarvis. It is currently a wildlife sanctuary that formerly housed a lighthouse and oceanographic weather station. All QSL's (except for JA) go to ADIS direct.

**BANGLADESH NATIONALS** will soon be premitted back on the air after a ban on Amateur Radio was recently lifted by their government. Getting the prohibition reversed took 4 years of negotiations by the Bangladesh Amateur Radio League, and Q2 licenses will still only be issued on a case by case basis.

**YASME EXPEDITIONERS** Lloyd (W6KB) and Iris (W6QL) Colvin will have embarked on yet another adventure by the time you read this newsletter. This time, they are on their way to South America for a 5 month trip in which they plan to visit and operate from HK, HC, QA (using the World Communications Year call 4T4TY, CP, CE, CX, LU and ZP, plus possible side trips to some of the outlying lands. Watch the low end of the CW and SSB portions of the bands, with special attention to the 30 through 160 meter bands. QSL to YASME, P.O. Box 2925, Castro Valley, CA 94546. Tnx above VE3FRA **DX REPORT**

**MACQUARIE** should be on when VK0GC arrives, after November 11th.

# YTARC BOOSTERS' CLUB



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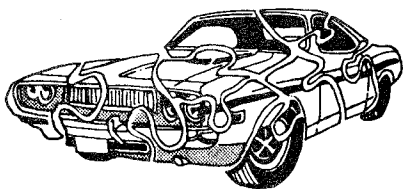
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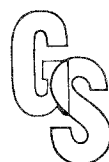
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